

# DOMINICK LEONE

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## PROFESSIONAL EXPERIENCE

**Boston Children's Hospital,** **June 2014 – Present**

**Research Assistant** Boston, MA | Pietermaritzburg, South Africa

- Biostatistics support for HIV research on factors related to caregiver and child health using SAS 9.3.
- Bioinformatics support on mobile health (mHealth) use in the field: programming Android tablets in Google's Open Development Kit (ODK) to collect participant data, trouble shooting, and analysis.

**Brigham an Women's Hospital** **December 2013 – Present**

**Research Assistant II** Boston, MA | Cape Town and Johannesburg, South Africa

- Created study database and integrated multilingual support using java-scripting for questionnaires in REDCap.
- Collaborated survey design, field-testing, and coordinated international-site data collection with teams in Cape Town and Soweto, South Africa.
- Updated IRB and ethics committees' protocols in both South Africa and USA.
- Established Standard Operating Procedure for qualitative coding in Nvivo software.

**TOTAL SLEEP MANAGEMENT,** **August 2008 – July 2014**

**Clinical Affairs Coordinator** Orlando, FL

- Increased productivity in processing electronic lab reports by programming macros in Microsoft Visual Basic for Applications (VBA).
- Reduced patient errors through creation of patient tracking system using C++, Access, Excel, and Word.
- Created licensing and accreditation training manuals for regional lab managers using Adobe Acrobat.

## EDUCATION

**BOSTON UNIVERSITY SCHOOL OF PUBLIC HEALTH, Boston, MA**

Master of Public Health in Infectious Disease Epidemiology  
3.87 GPA, merit scholarship

**May 2013**

**UNIVERSITY OF SOUTH FLORIDA SCHOOL OF MEDICINE, Tampa, FL**

**August 2004 - 2006**

**GEORGETOWN UNIVERSITY, Washington, DC**

Master of Science in Physiology, *commendations*  
Thesis on Molecular Biology of Beta Adrenergic Receptors

**October 2003**

**UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL**

Bachelor of Science, Biology  
Deans & Presidents' List

**May 2002**

## TEACHING EXPERIENCE

**Boston University School of Public Health, Boston, MA**

**September 2013 – Present**

**SAS Instructor** (Intro to Statistical Computing)

- Communicated SAS coding techniques to class of 25 students
- Collaborated with curriculum coordinator, BU-IT, and Biostatistics department heads.

**Northern Virginia Community College, Annandale, VA**

**January 2004 – June 2004**

**Adjunct Professor of Biology**

- Designed and taught first year curriculum (lecture and laboratory) to 50 students.

**Georgetown University College of Nursing, Washington, DC**

**August 2003 – December 2003**

**Laboratory & Teaching Assistant**

- Taught a first year nursing class dissection techniques, and a third year class microbiology lab techniques.

**University of Central Florida, Orlando, FL**

**January 2002 – May 2002**

**Teaching Assistant**

- Assisted in the instruction of physiological psychology.

## SCHOLARSHIP

### Peer-reviewed publications

- Fryden N, **Leone D**, Mitchell B, Abbas O, Mahalnham M. Perineural invasion and expression of the High-affinity Nerve Growth Factor Receptor TrkA in squamous cell carcinoma – an immunohistochemical study of correlation with anatomic site and established histopathologic prognosticators. (under review, 2014) \_\_\_\_\_.
- Katz IT, Bogart L, Cloete C, Crankshaw T, Giddy J, Govender T, Regan S, Gaynes MR, **Leone D**, Losina E, Bassett IV. Understanding patients' experiences with PEPFAR-associated transitions in care in South Africa: a qualitative study. (under review, 2014) *AIDS Care*.
- Aung P, **Leone D**, Feller K, et al. Microvessel density, lymphovascular density and lymphovascular invasion in primary cutaneous melanoma. (under review, 2014). *Human Pathology*.
- Aung PP, **Leone D**, Feller K, et al. Microvessel density, lymphovascular density and lymphovascular invasion in primary cutaneous melanoma –correlation with histopathologic prognosticators and BRAF status. (approved, 2014) *Human Pathology*.
- Mitchell B, **Leone D**, Feller K, et al. Correlation of chemokine receptor CXCR4 mRNA in primary cutaneous melanoma with established histopathologic prognosticators and the BRAF status. *Melanoma Research*. 2014. PMID 25211166
- Mitchell B, **Leone D**, Feller K, et al. Protein expression of the chemokine receptor CXCR4 and its ligand CXCL12 in primary cutaneous melanoma—biomarkers of potential utility? *Human Pathology*. 2014. doi:10.1016/j.humpath.2014.06.018.

### Abstracts

- Aung PP, **Leone D**, Feller JK, Yang S, Massaro J, Hernandez M, Yaar R, Singh R, Helm T, Mahalingam M. Lymphovascular invasion and BRAF status in primary cutaneous melanoma – is there a connection? *USCAP Annual Meeting*, 2015, Boston, MA.
- Fryden N, **Leone D**, Mahalingam M. Perineural Invasion in Cutaneous Squamous Cell Carcinoma; an Immunohistochemical Study of Correlation with Anatomic Site and Established Histopathologic Prognosticators. *USCAP Annual Meeting*, 2015, Boston, MA.
- Fryden N, **Leone D**, Mahalingam M. Expression of the High-Affinity Nerve Growth Factor Receptor TrkA in Cutaneous Malignancies With a Propensity for Perineural Invasion – Is There a Connection? *USCAP Annual Meeting*, 2015, Boston, MA.
- Katz IT, Kaplan R, Fitzmaurice G, **Leone D**, Bansberg DR, Bekker LG, Orrell C. The impact of South Africa's HIV Treatment Guidelines on Early Loss to Care: A cohort analysis. *CROI 2015*, Seattle, WA (submitted).
- Mitchell B, **Leone D**, Feller JK, Bondzie P, Yang S, Park HY, Mahalingam M. The chemokine receptor 4 (CXCR4) in primary cutaneous melanoma - correlation of expression with established histopathologic prognosticators, BRAF status and expression of its ligand CXCL12 *SID Annual Meeting*, 2014, Albuquerque, Mexico

## RESEARCH PROJECTS

### **Down-Referral of HIV care from Sinikithemba Hospital to Local Health Clinics in Durban, South Africa** **May 2014 – Current**

- Analyzed 20 interviews of patients using NVivo software.
- Refined codebook for qualitative analysis through collaboration with Massachusetts General Hospital Center for Global Health.

### **Cervical Abnormalities in HIV-infected South African Women with High Screening and Referral Rates** **May 2014 – Current**

- Background literature review on epidemiology of cervical cancer, HPV and HIV among this population.
- Statistical and SAS support for analysis.

### **Spousal Caregiving in Widowhood and Insomnia** **January 2013 – May 2013**

- Graduate student research at Boston University School of Public Health that culminated in a manuscript (publication pending).
- Analyzed epidemiological effect modification of spousal caregiver in the Caregiver-SOF cohort using a mixed-model in SAS

### **Enhanced Lyme Surveillance System** **May 2012 – November 2013**

- Created survey questionnaire for Massachusetts Department of Public Health (MDPH) in MS Office
- Collected field specimens and identified tick “hotspots” in Western Massachusetts using Geographic Information Systems (GIS) and microscopy.

- Selected to present findings to Boston University Deans' Advisory Committee
- Collaborated with Director of West Springfield Health department in a press release of public's risk of tick-borne diseases.

## CONFERENCES

### **Racial and Ethnic Disparities in Chlamydia and Gonorrhea infections in Massachusetts**

**February 19 2014**

- Abstract presented at 2014 Annual NIH Meeting of the Sexually Transmitted Infections Cooperative Research Centers (U19)
- Biostatistics and Epidemiology collaboration with Boston University School of Medicine, **Department of Infectious Disease**
- Successfully submitted research design, power calculations, and IRB proposals to BU and MDPH Institutional Review Boards examining factors related to treatment delay using SAS, REDCap, Excel, and GIS to maintain and analyze patient databases.

## VOLUNTEER EXPERIENCE

### **Area Health Education Center, Tampa, FL**

**May 2006**

#### ***Partners in the Prevention of Substance Abuse***

- Worked with various allied professional students, delivering a coordinated anti-tobacco message, to area students by providing lessons on health implications.

### **InterHealth South America, Quito, Ecuador**

#### ***Medical Volunteer, obstetric service***

**June 2005 – August 2005**

- Maternidad Isidro Ayora public hospital with 95 beds

### **Judeo-Christian Health Center**

**January 2006**

#### ***Medical Student Volunteer***

- Attended "free" community clinics with USF faculty and staff, while gaining valuable exposure to an underserved local population.

### **Health Services Collaborative, Dominican Republic**

**December 2005**

#### ***Travel Director***

- Arranged travel, accommodations, and insurance for volunteers; led socio-economic and cultural presentations to volunteers. Also served as public health volunteer in the Dominican Republic with a 12 member cross-disciplinary team of students.

### **InterHealth South America, Quito, Ecuador**

**June 2005 – August 2005**

#### ***Medical Volunteer***

- Worked in a women's prison and in an urban hospital on the OB/GYN ward. Responsible for intake, H&P, presentation to attending, and follow-up.

### **Learning Enterprises, Slovakia**

**June 2005 – August 2005**

#### ***Volunteer English Teacher***

- Taught English in-country to secondary students and teachers in an effort to facilitate cross-cultural exchange.

### **ACOSIDA, Tijuana, Mexico**

**May 2002 – August 2002**

#### ***Hospice and Clinic Worker***

- Volunteered side-by-side with social workers, physicians, pharmacists, and hospice workers to restore health to marginalized groups suffering from HIV.

## LEADERSHIP

### **Preventative and Integrative Medicine Interest Group**

**August 2005 – May 2006**

#### ***Co-Founder & Treasurer***

- Helped to increase and promote awareness of issues in the prevention of disease through the education of medical students in multiple medical modalities

### **Curriculum Committee**

**December 2004 – November 2005**

#### ***Student Liaison @ USF College of Medicine***

- Addressed perceived deficiencies of nutrition education in the basic medical science curriculum via coordination with senior faculty and administration.

### **Physiology Course Liaison**

**November 2002 – March 2003**

#### ***Student Liaison @ Georgetown University***

- Coordinate and relate student concerns to course director regarding curriculum and evaluations.

## AWARDS

**Honorary Citizen of Ecekec**, Slovak Republic  
**Presidents List**, University of Central Florida  
**Deans List**, University of Central Florida, 5 semesters  
**Rollins College Presidential Scholarship**  
**Adelphi University Provost Scholarship**

**July 2003**  
**August 2000 – December 2000**  
**January 2000 – April 2002**  
**August 1996 – July 1998**  
**August 1995 – April 1996**

## PROFESSIONAL MEMBERSHIPS

American Medical Student Association  
American Medical Association  
American College of Surgeons  
American College of Emergency Physicians

**January 2001 – Present**  
**August 2004 – Present**  
**November 2005 – Present**  
**November 2005 – Present**